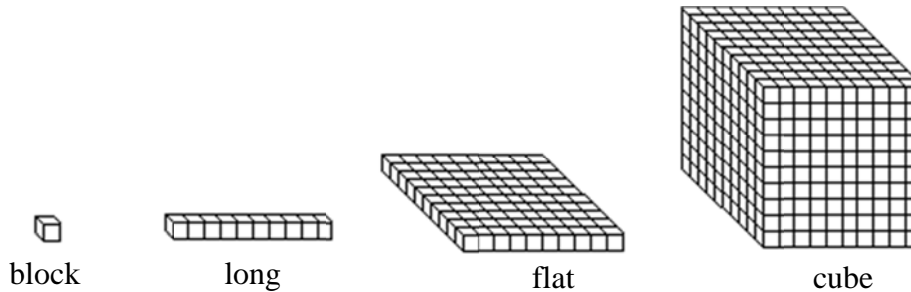


Using Base Ten Blocks to Represent Decimals

Names for the Base 10 Blocks:



Note: Depending on our purposes, we can choose any value (other than 0) to represent any of the 4 types of Base Ten Blocks. Once that value is chosen, all other values follow from the shapes.

Warm-up: If a long represents the number 20, then what is the value of...

- a. 5 longs?
 - b. 1 block?
 - c. 1 flat?
 - d. 3 longs and 4 blocks?
-
1. Suppose now that 1 flat represents the number 1.
 - a. What number does a long represent?
 - b. What number does a block represent?
 - c. What number does a cube represent?
 - d. Draw the associated pieces to represent 0.35.

 - e. Draw the associated pieces to represent 23.67.

 - f. Draw the associated pieces to represent 11.08.

2. Now, let's suppose 1 long represents the number 1.

a. What would a flat represent?

b. What would a unit represent?

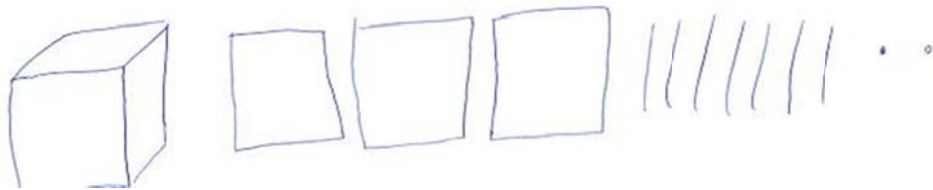
c. What would a cube represent?

d. Draw the associated pieces to represent 8.9.

e. Draw the associated pieces to represent 32.8.

f. Draw the associated pieces to represent 256.1.

3. List at least three different decimal numbers that the base ten pieces pictured below could represent. In each case, state the associated value of the flat.



a. First possibility: _____

Associated Value of Flat: _____

b. First possibility: _____

Associated Value of Flat: _____

c. First possibility: _____

Associated Value of Flat: _____